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ABSTRACT

Findings from annual follow-up studies of career program completers at Johnson County Community College (JCCC) were summarized for the classes of 1988-89 through 1992-93. Approximately one in three JCCC students has declared a career-related educational objective since the college's inception, and the number and variety of career programs has grown as the college expanded. Trends evident over the past 5 years include the following: (1) enrollment in career programs increased by 42% between summer 1988 and spring 1992, but declined slightly over the 1992-93 academic year; (2) programs which more than doubled in enrollment between 1988-89 and 1992-93 were civil engineering, biomedical equipment technology, office automation technology, and chef apprentice; (3) programs showing the greatest numerical increase in enrollment were data processing, business administration, accounting, commercial art, and chef apprentice; (4) a smaller percent of females, whites, and part-time students were found in career programs than in the JCCC student body as a whole in 1993; (5) the number of career program completers declined between 1988-89 and 1989-90, then increased each of the following 4 years for a net increase of 23%; (6) programs producing the largest number of completers were paralegal, emergency medical technology, data processing, nursing, commercial art, police academy, business administration, and hospitality management; (7) 80% of the respondents to short-term follow-up studies conducted over the past 5 years reported that they were working in a job related to their career program; (8) the overall average hourly wage of respondents employed full-time in a education-related job increased by 15% between 1989 and 1993, from $10.36 to $11.86; (9) 86% of the employed program completers expressed satisfaction with their jobs; and (10) more than 9 out of 10 employers provided positive evaluations of the overall job preparation received by the community college-trained employee. (KP)

ED 377 901

5-year Report of JCCC Career Programs Fall 1988 to Spring 1993

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5-YEAR REPORT OF JCCC CAREER PROGRAMS

FALL 1988 TO SPRING 1993

Johnson County Community College
Office of Institutional Research
12345 College Blvd.
Overland Park, KS 66210

September 1994

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INTRODUCTION

The purpose of this report is to summarize important findings from the last five follow-up studies of career program completers conducted by the JCCC Office of Institutional Research (Class of 1988-89 to Class of 1992-93). In so doing, it also brings together information which answers the questions most often asked about the college's career program offerings. Career programs have been a part of the JCCC curriculum throughout the college's 25 year history. The college's original philosophy and goals statement described the educational program as embracing a broad range of curricula to serve a variety of objectives including, "occupational programs designed to provide the technical knowledge, manipulative skills, and general background necessary to successful achievement in technical and semi-professional employment." Subsequent revisions of the college's mission statement have continued to emphasize the importance of career programs in the options available to JCCC students.

Approximately one in three JCCC students have declared a career-related educational objective since the college's inception, and the number and variety of career programs has grown as the college expanded. By 1980, nearly 30 different career programs were offered, and today's students may choose from over 40 options ranging from short-term certificate programs lasting less than one semester to associate degree programs that may involve up to six semesters of full-time study.

Although career programs by definition are preparation for the world of work, completers may eventually decide to pursue a bachelor's degree or higher as they advance in their chosen career field. For this reason, JCCC continually works with 4-year colleges and universities to develop articulation agreements which maximize the future educational opportunities of career program completers as well as those who plan their educational program with transfer in mind. In some instances, arrangements have been made for faculty from 4-year institutions to bring upper division coursework to the JCCC campus for the convenience of students desiring to further their education without having to commute long distances or move out of the area.

Thus, JCCC continues to strive to meet the changing needs of its students and the workplace through the addition of new career programs, discontinuation of programs no longer deemed appropriate in a changing market, and development of articulation agreements with 4-year colleges and universities which facilitate the transfer process for students desiring to continue their educational pursuits. Results of follow-up studies of both career program completers and their employers over the past 5 years indicate the college has been highly successful in meeting those needs.

Enrollment Data Sources: Determining realistic and accurate enrollment figures for each career program posed an interesting challenge due to dual enrollments, selective admissions requirements, co-op arrangements, and changes in students' educational objective and program intent. To minimize the result of changes in students' educational plans, during each fall and spring semester career program administrators are asked to verify each student's program

intent so appropriate revisions can be made in the student database. The JCCC Fall Enrollment Report details career program enrollments based on the program intent codes in the student database as of the 20th day of classes (the college's "official" enrollment headcount for state reporting purposes), and the Kansas Vocational Education Department state report (K-VED-1) provides an unduplicated headcount of students enrolled in vocationally funded programs throughout the previous academic year (summer, fall and spring). These data thus became the starting point for enrollment figures for this report, with adjustments based on actual figures provided by administrators of the selective admissions programs and programs with unique situations, such as police academy and emergency medical technology.

Completer Data Source: Career program completers were defined as all students who either had earned a degree or certificate, or had been identified by their career program administrator as leaving their program with marketable skills. These data have been adjusted to reflect corrections resulting from identification of individuals via the follow-up process who had been erroneously identified as career program completers and were either currently enrolled or had completed their career program at another time.

Respondent Data Source: Respondent data for this report were taken directly from previously published reports of findings for short-term follow-up studies of career program completers and their employers. In order to maintain internal consistency, no attempt was made to adjust the response rate in this report to eliminate former students who had no opportunity to respond due to obsolete addresses and telephone numbers. Thus, the response rate provided in this 5-year report differs from the response rate cited in each of the individual reports published over the past 5 years.

A summary of major findings follows, and tabled data are located in the appendix. Caution should be exercised when generalizing these data due to the relatively small number of respondents in some programs. Comments and questions regarding this report or previous follow-up studies of career program completers may be directed to:

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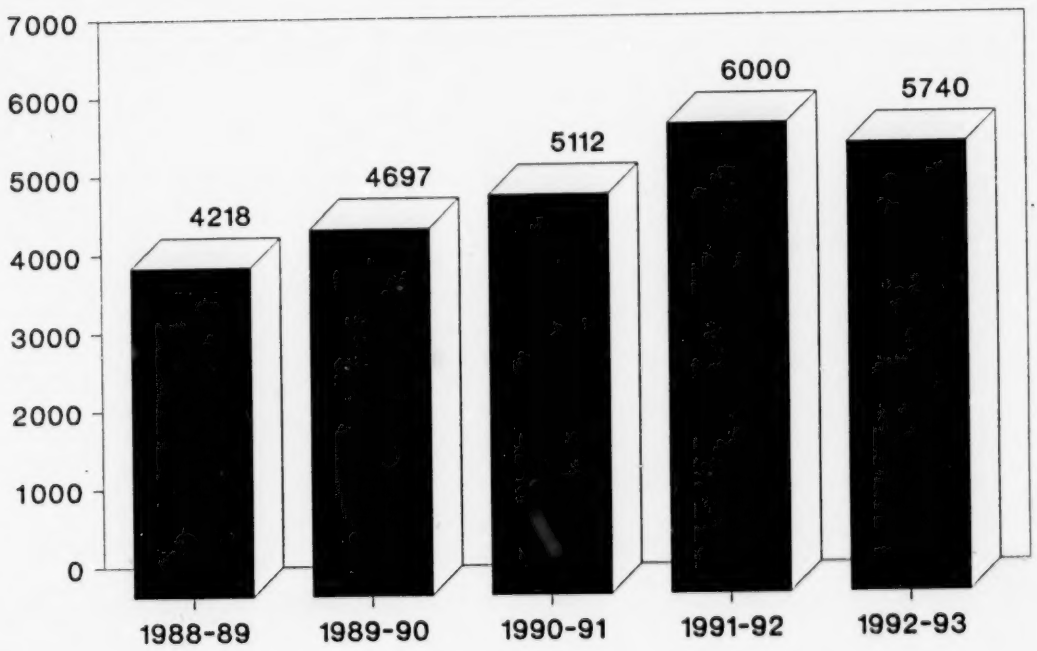
ENROLLMENTS

How have career program enrollments changed over time? Which programs have exhibited the greatest percent of change, and which have increased by the greatest number of students?

As Figure 1 depicts, enrollment in career programs increased substantially between summer 1988 and spring 1992 (+42%), but declined slightly over the 1992-93 academic year. Four programs more than doubled in size between 1988-89 and 1992-93: civil engineering technology (+217%), biomedical equipment technology (+210%), office automation technology (+127%), and chef apprentice (+126%). The career programs exhibiting the greatest numerical increase in students were data processing (+252), business administration (+208), accounting (+204), commercial art (+130), and chef apprentice (+111). Enrollment data for all career programs are detailed in Tables 1 and 2.

Figure 1
5-Year Comparison of JCCC
Career Program Enrollments



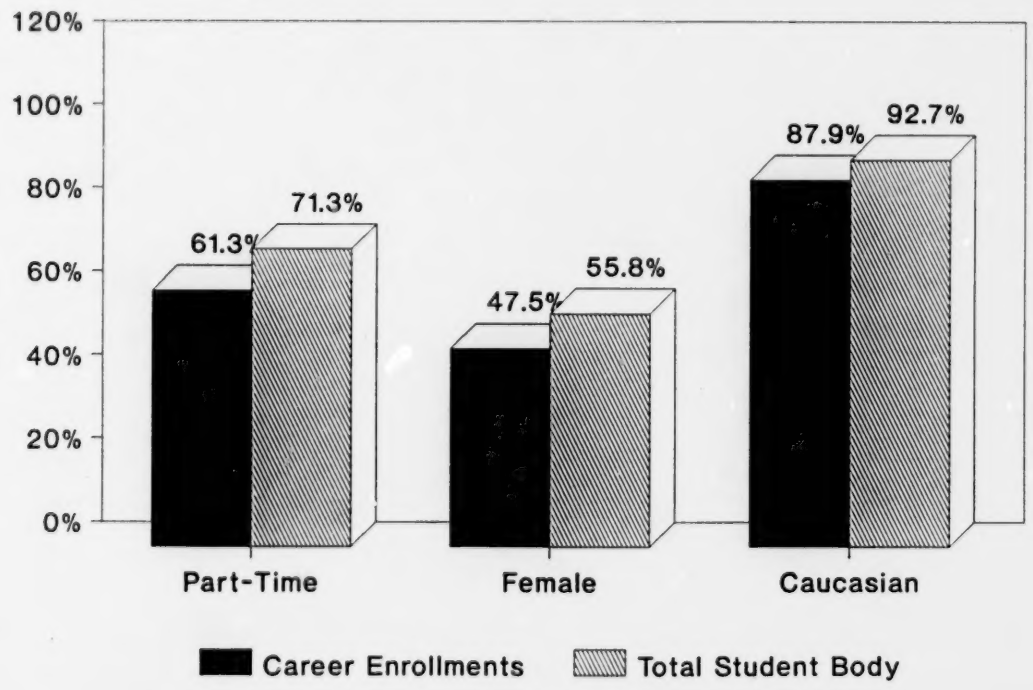
PROFILE OF 1993 CAREER PROGRAM ENROLLEES

What percent of JCCC career program enrollees attend part-time only, and how does that compare with the college as a whole? Which programs enroll the greatest percent of females? Which programs enroll the greatest percent of minorities?

As Figure 2 depicts, a smaller percent of females, whites, and part-time students (enrolled in less than 12 credit hours) were found in career programs than in the JCCC student body as a whole in 1993. Females comprised over 95% of enrollments in dental hygiene, office systems technology, fashion merchandising, and interior merchandising, while the concentration of males was highest in HVAC technology (98.1%), automotive technology (95.6%), fire science (95.5%), and police academy (93.5%).

Programs with the lowest concentration of Caucasian students were hospitality management (80.1%), electronics engineering technology (83.4%), chef apprentice (86.4%), computer systems technology (86.6%), and interpreter training (88.2%). Details of enrollment status, gender and ethnicity by program are located in Table 3.

Figure 2
Profile of 1993 JCCC Students



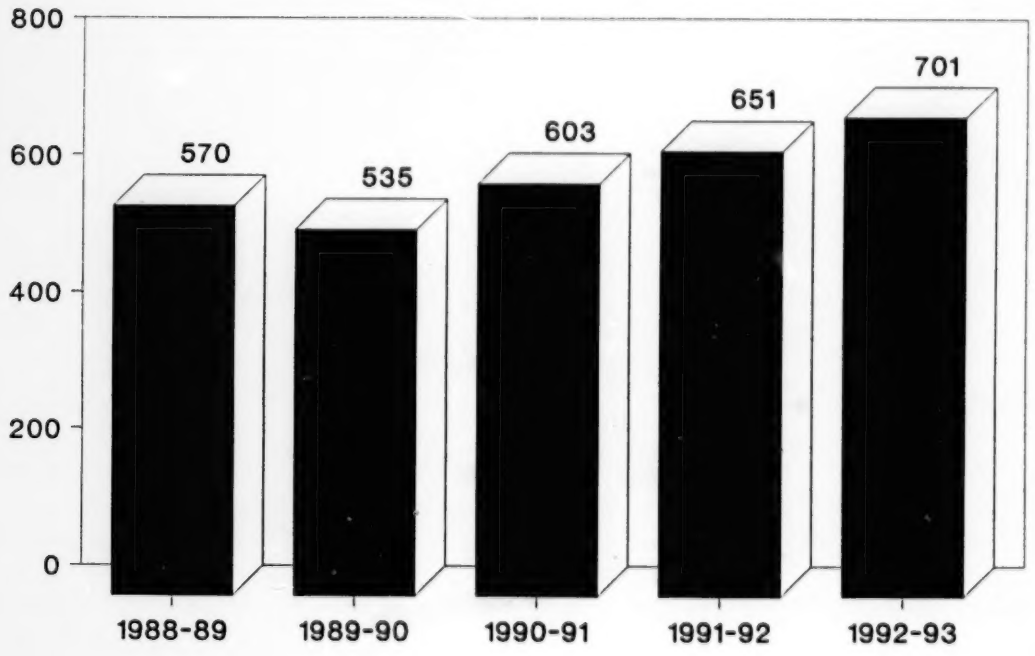
COMPLETIONS

How many students complete career programs each year, and how has that number changed over time? Which career programs have produced the most completers over the past 5 years?

As Figure 3 depicts, the number of career program completers declined between 1988-89 and 1989-90, then increased in each of the following 4 years for a net increase of 23% over the 5-year period and a gain of 32% between 1989-90 and 1992-93.

Programs producing the largest total number of completers over the 5-year period were paralegal (348), emergency medical technology (288), data processing (271), nursing (237), commercial art (150), police academy (150), business administration (142), and hospitality management (133). See Tables 4 and 6 for details by career program.

Figure 3
5-Year Comparison of JCCC
Career Program Completers



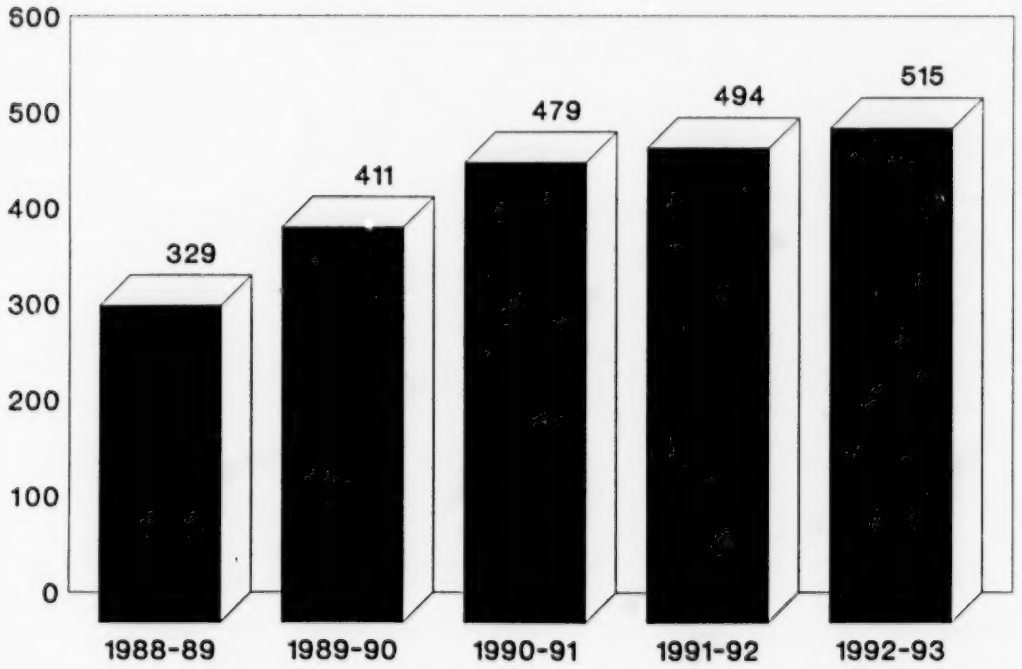
RESPONDENTS TO SHORT-TERM FOLLOW-UP STUDIES

How many career program completers have responded to the short-term follow-up study each year, and which programs have enjoyed the greatest percent of respondents over the past 5 years?

As Figure 4 depicts, the number of respondents to the JCCC short-term follow-up studies of career program completers increased by 57% between the follow-up study of the Class of 1988-89 conducted during the winter and spring of 1989-90 and the follow-up study of the Class of 1992-93 conducted during the winter and spring of 1993-94.

Excluding new programs and cooperatives where the numbers were small, the highest response rates for the 5-year period were from completers of nursing (83%), dental hygiene (83%), computer systems technology (80%) medical intensive care technology (79%), interpreter training (79%), paralegal (78%) and fire science (78%). See Tables 5 and 6.

Figure 4
5-Year Comparison of Respondents to
JCCC Short-Term Follow-up Studies



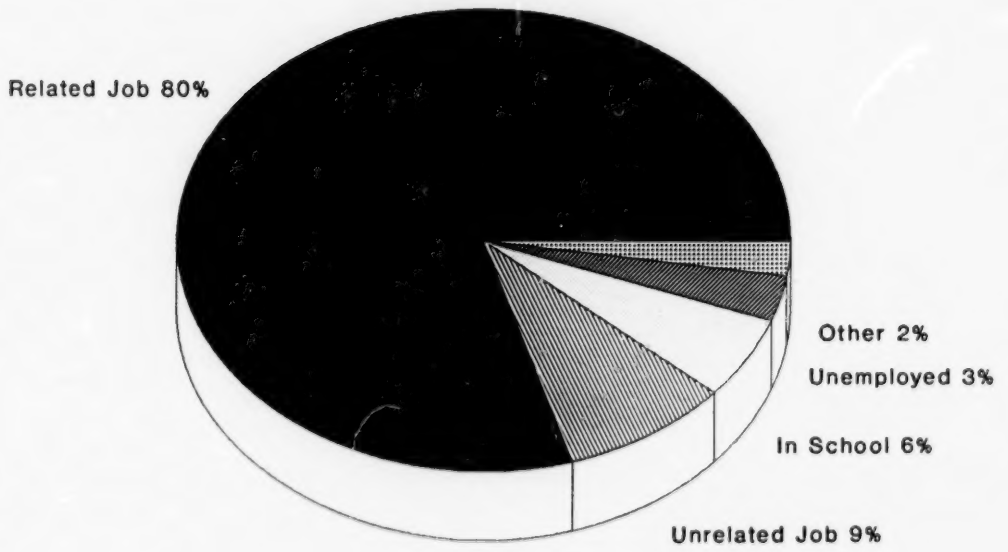
STATUS AFTER PROGRAM COMPLETION

What percent of respondents were employed in jobs related to their career program? What were the other respondents doing? Which career programs exhibited the greatest percent of respondents who were employed in related jobs?

Fully 80% of respondents to the short-term follow-up studies conducted over the past 5 years reported that they were working in a job related to their career program. Only 3% were unemployed and looking for work; 9% were working in an unrelated job; 6% were pursuing additional education, and the remaining 2% were either serving in the military, out of the labor force, or their status was unknown.

Of programs with 10 or more total respondents, seven averaged at least 95% employment in related jobs: police academy (99%), dental hygiene (99%), respiratory therapy (98%), nursing (97%), veterinary technology (96%), radiologic technology (95%), and chef apprentice (95%). See Table 7 for detailed results of the 5-year average of respondent status for all career programs.

Figure 5
5-Year Average: Current Status of
JCCC Career Program Completers



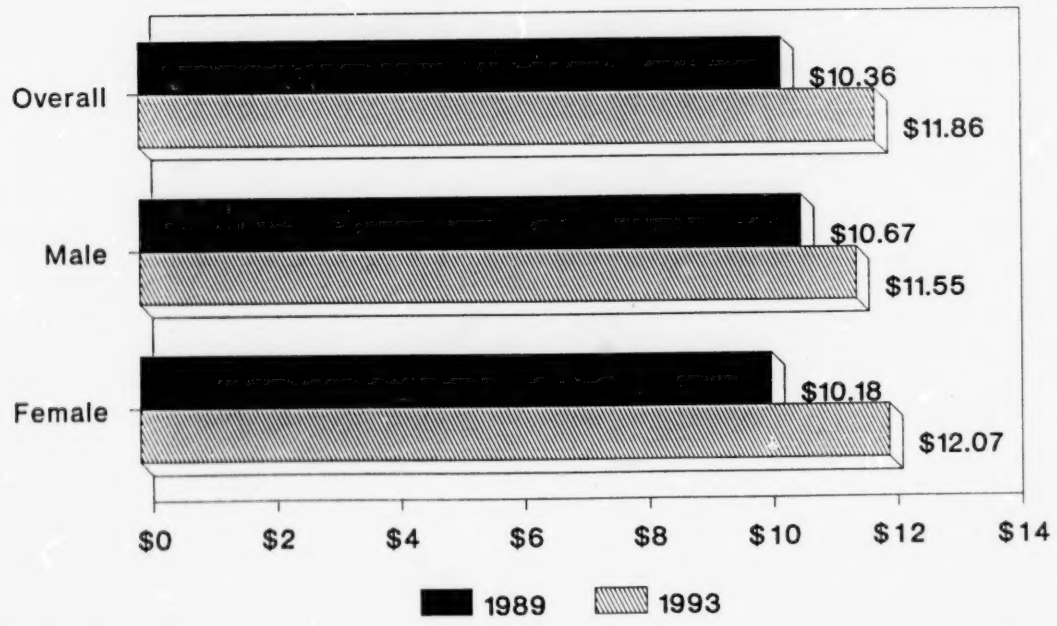
WAGES OF RESPONDENTS EMPLOYED IN A FULL-TIME RELATED JOB

Has the average hourly wage of respondents employed in a job related to their career program increased over time? How much difference was evident between the average hourly wage reported by males vs. females? Which career programs exhibited the highest average hourly wage last year?

As Figure 6 depicts, the overall average hourly wage of respondents employed full-time in a job related to their career program increased by 15% between the follow-up of the Class of 1988-89 and the Class of 1992-93. Although male respondents from the Class of 1988-89 reported a higher average hourly wage than females ($10.67 vs. $10.18), the situation reversed itself with results for the Class of 1992-93 (females, $12.07 vs. males, $11.55). The average hourly wage for males increased 8% over this 5-year period, while the average for females increased by 19%.

The career programs with at least 10 respondents who reported the highest average hourly wage for the Class of 1992-93 were dental hygiene ($18.62), nursing ($15.12), data processing ($13.96), business administration ($12.77), and police academy ($12.69). See Table 8 for details of results.

Figure 6
5-Year Comparison of Average Hourly Wage
of Respondents in Full-Time Related Jobs



RESPONDENT AND EMPLOYER SATISFACTION

How satisfied were respondents with their full-time related job, and which career programs enjoyed the greatest percent of respondents expressing satisfaction? How satisfied were the employers with their completers' overall job preparation, and which career programs enjoyed the greatest percent of respondents with satisfied employers?

As Figure 7 depicts, six out of seven respondents expressed satisfaction with their current full-time related job for a 5-year composite average of 86%. The career programs with 10 or more total respondents that exhibited the greatest percent of satisfied respondents were radiologic technology (100%), police academy (98%), interior merchandising (95%), respiratory therapy (95%), nursing (94%), drafting (92%), emergency medical technology (92%), interpreter training (91%) and medical intensive care technology (91%).

As Figure 8 depicts, more than 9 out of 10 employers provided positive evaluations of the overall job preparation received by their community college-trained employee, for a 5-year composite average of 93%. The career programs with 10 or more total respondents that enjoyed all positive responses in each of the last 5 years were automotive technology, biomedical equipment technology, computer systems technology, interpreter training,and veterinary technology. See Tables 9 and 10 for results by career program.

Figure 7
5-Year Average: Respondent Satisfaction With Current Full-Time Related Job

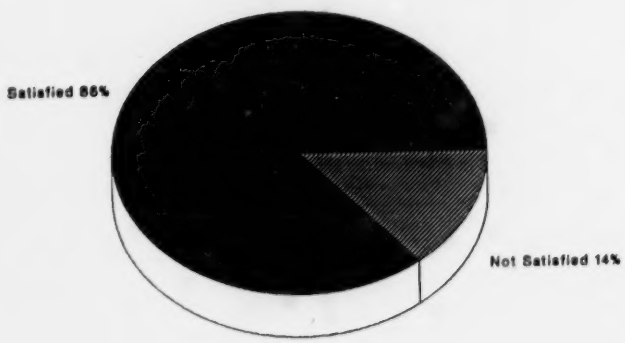


Figure 8
5-Year Average: Employer Evaluation of Overall Job Preparation

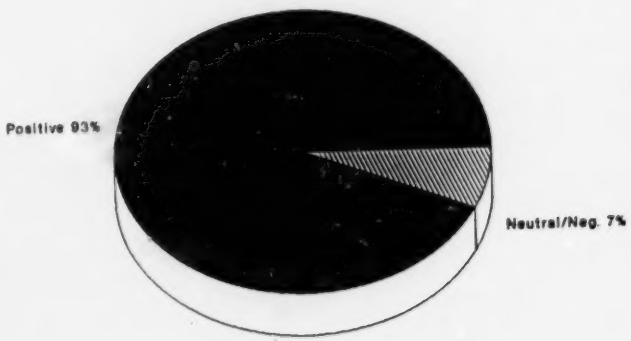


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Table 1

JCCC CAREER PROGRAM ENROLLMENTS [1]

Career Program	'88-89	'89-90	'90-91	'91-92	'92-93
Accounting	291	309	419	507	495
Administration of Justice	177	174	192	277	268
Automotive Technology	67	69	104	117	113
Aviation Maintenance Tech. (co-op) [4]	20	23	19	20	14
Biomedical Equipment Tech.	20	26	34	36	62
Business Administration	523	649	741	832	731
Business Entrepreneurship (new)	0	0	25	20	71
Chef Apprentice	88	112	144	170	199
Civil Engineering Tech. (new)	29	50	71	98	92
Commercial Art	224	264	305	369	354
Computer Systems Technology	187	148	165	227	179
Data Processing	322	451	546	628	574
Dental Hygiene (selective)[3]	55	36	42	43	47
Drafting Technology	105	120	174	195	176
Electronics Engr. Tech.	150	145	167	209	187
Emergency Medical Technology[5]	69	93	78	93	114
Equine Studies (discontinued)	33	32	38	27	6
Fashion Merchandising	90	121	97	117	102
Fire Science	136	106	101	98	112
HVAC Technology	121	133	182	208	206
Health Information Tech. (co-op)[4]	14	22	32	41	36
Hospitality Management	211	270	237	280	244
Interior Merchandising	138	153	161	146	130
Interpreter Training (selective)[3]	60	60	59	48	51
Manufacturing Technology (discontinued)	48	18	8	2	0
Marketing & Management	161	160	180	220	184
M.I.C.T. (Paramedic)[5]	66	25	71	104	67
Metal Fabrication[2]	42	10	5	8	18
Nursing (selective)[3]	91	106	105	110	115
Occup. Therapy Asst. (co-op)[4]	13	20	21	38	45
Office Automation Tech.	34	41	51	94	77
Office Systems Technology	152	183	213	225	202
Paralegal (selective)[3]	397	471	160	106	141
Physical Therapy Asst. (co-op)[4]	22	30	43	87	112
Police Academy[3]	33	30	33	31	31

Table 1 (continued)

JCCC CAREER PROGRAM ENROLLMENTS [1]

Career Program	'88-89	'89-90	'90-91	'91-92	'92-93
Radiologic Tech. (co-op)[4]	13	17	35	74	92
Respiratory Therapy (selective)[3]	6	8	8	13	18
Sales & Customer Relations (new)	0	0	6	10	10
Science Technology (new)	0	0	14	33	28
Veterinary Tech. (co-op)[4]	10	12	26	39	36
Totals	4,218	4,697	5,112	6,000	5,740
Percent of Change		+11.4%	+8.8%	+17.4%	-4.3%

Notes. [1] Except for selective admissions programs or unusual situations, enrollment data were taken from K-VED-1 annual reports for programs receiving vocational funding and are an unduplicated headcount for the entire academic year (summer, fall and spring). Data for programs not receiving vocational funding were taken from the JCCC Fall Enrollment Reports.

[2] Enrollments in Metal Fabrication do not include students receiving specialized training at JCCC's National Academy of Railroad Sciences.

[3] Selective admissions program or unusual situation which impacted enrollment figures.

[4] Cooperative program housed at Metropolitan Community Colleges; number represents intent indicated on JCCC applications as published in the JCCC Fall Enrollment Reports and is not indicative of acceptance into the program or of the total number of students enrolled in the program at Penn Valley or Maple Woods Community College.

[5] Enrollments in the Emergency Medical Technology and Medical Intensive Care Technology may not be accurate due to dual enrollments of many of these students in programs such as Fire Science, Administration of Justice, or various allied health programs.

Table 2

5-YEAR CHANGE IN ENROLLMENTS
1988-89 to 1992-93

Career Program	Numerical Change	Percent of Change
Accounting	+204	+70.1%
Administration of Justice	+91	+51.4
Automotive Technology	+46	+68.7
Biomedical Equipment Tech.	+42	+210.0
Business Administration	+208	+39.8
Chef Apprentice	+111	+126.1
Civil Engineering Tech. (new)	+63	+217.2
Commercial Art	+130	+58.0
Computer Systems Technology	-8	-4.3
Data Processing	+252	+78.3
Drafting Technology	+71	+67.6
Electronics Engr. Tech.	+37	+24.7
Emergency Medical Technology	+45	+65.2
Fashion Merchandising	+12	+13.3
Fire Science	-24	-17.6
HVAC Technology	+85	+70.2
Hospitality Management	+33	+15.6
Interior Merchandising	-8	-5.8
Marketing & Management	+23	+14.3
M.I.C.T. (Paramedic)	+1	+1.5
Metal Fabrication	-24	-57.1
Office Automation Tech.	+43	+126.5
Office Systems Technology	+50	+32.9

Note. Discontinued programs, selective admissions programs, co-op programs, and programs initiated at the college after fall of 1989 have been excluded; 5-year enrollment comparisons would have been meaningless in these situations due to capped enrollments in selective admissions and co-op programs, and to the lack of a full 5 years of data for new or discontinued programs.

Table 3

PROFILE OF 1993 STUDENTS
ENROLLED IN JCCC CAREER PROGRAMS

Career Program	Part-Time	Female	Caucasian
Accounting	59.0%	71.3%	91.5%
Administration of Justice	40.0	28.7	97.4
Automotive Technology	62.2	4.4	90.3
Biomedical Equipment Tech.	44.4	16.1	91.9
Business Administration	58.6	53.8	n.a
Business Entrepreneurship	74.6	35.2	94.4
Chef Apprentice	72.4	23.1	86.4
Civil Engineering Tech.	60.0	12.0	91.3
Commercial Art	66.4	55.1	92.4
Computer Systems Technology	70.0	23.5	86.6
Data Processing	74.6	50.2	93.9
Dental Hygiene (selective)	0.0	100.0	98.0
Drafting Technology	69.0	21.6	93.2
Electronics Engr. Tech.	69.3	10.7	83.4
Emergency Medical Science	63.9	39.8	96.7
Fashion Merchandising	41.4	98.0	91.2
Fire Science	76.0	4.5	98.2
HVAC Technology	84.0	1.9	93.7
Hospitality Mgmt.	72.3	30.2	80.1
Interior Merchandising	64.2	95.4	95.4
Interpreter Training (selective)	37.0	80.4	88.2
Marketing & Management	46.8	54.3	95.1
Nursing (selective)	0.0	93.4	99.2
Office Automation Tech.	71.0	90.9	93.5
Office Systems Technology	65.7	97.0	92.1
Paralegal (selective)	73.6	85.1	95.7
Police Academy	0.0	6.5	93.5
Respiratory Therapy (selective)	0.0	60.0	90.0
Career Program 1993 Enrollments	61.3%	47.5%	87.9%
Total JCCC Spring 1993 Enrollments	71.3%	55.8%	92.7%

Note. Although occasionally enrolled in less than 12 credit hours, Dental Hygiene and Nursing students are considered full-time by their career program administrators due to the number of clock hours required per week in the clinical experience components. Part-time percentages for other programs were published in the 1993 JCCC Program Enrollment Report, and gender and ethnicity data for all programs were extracted from the 1993 K-VED-1 State Enrollment Report. Programs which were new, discontinued, or cooperatives have been excluded for lack of reliable data.

Table 4

JCCC CAREER PROGRAM COMPLETERS[1]

Career Program	Academic Year in Which Program Completed '88-89	'89-90	'90-91	'91-92	'92-93
Accounting	15	7	5	10	10
Administration of Justice	9	3	7	17	22
Automotive Technology	5	9	18	14	17
Aviation Maintenance Tech. (co-op)[2]	2	1	0	4	2
Biomedical Equipment Tech.	5	8	3	3	9
Business Administration	36	27	23	26	30
Chef Apprentice	5	11	6	15	20
Civil Engineering Tech. (new)	0	0	2	1	9
Commercial Art	40	22	38	28	22
Computer Systems Technology	6	12	10	7	4
Data Processing	48	45	67	55	56
Dental Hygiene (selective)	15	12	18	19	22
Drafting Technology	11	10	12	10	12
Electronics Engr. Tech.	13	7	10	9	14
Emergency Medical Technology[4]	52	51	49	69	67
Equine Studies (discontinued)	10	9	5	13	2
Fashion Merchandising	19	11	6	8	9
Fire Science	14	10	7	10	10
HVAC Technology	11	11	14	24	25
Health Information Tech. (co-op)[2]	1	7	5	8	8
Hospitality Management[3]	27	21	25	32	28
Interior Merchandising	12	13	13	18	11
Interpreter Training (selective)	14	17	15	7	22
Manufacturing Technology (discontinued)	6	2	2	1	1
Marketing & Management	17	8	13	10	16
M.I.C.T. (Paramedic)[4]	10	9	10	15	18
Nursing (selective)	36	49	43	54	55
Occup. Therapy Asst. (co-op)[2]	1	1	1	2	0
Office Automation Tech.	8	7	9	22	31
Office Systems Technology	11	20	17	23	20
Paralegal (selective)	68	70	88	69	53
Physical Therapy Asst. (co-op)[2]	0	1	8	0	0
Police Academy	33	30	32	25	30

Table 4 (continued)

JCCC CAREER PROGRAM COMPLETERS [1]

Career Program	Academic Year in Which Program Completed '88-89	'89-90	'90-91	'91-92	'92-93
Radiologic Tech. (co-op)[2]	2	4	13	0	21
Rec. Leadership (discontinued)	0	2	0	0	0
Respiratory Therapy (selective)	5	8	7	11	17
Sales & Customer Relations (new)	0	0	0	1	0
Science Technology (new)	0	0	0	1	1
Veterinary Tech. (co-op)[2]	3	0	2	10	7
Totals	570	535	603	651	701
Percent of Change		-6.1%	+12.7%	+8.0%	+7.7%

Notes. [1] Completers identified from short-term follow-up study corrected lists.

[2] Co-op program conducted primarily at one of the Metropolitan Community Colleges. Only completers initiating their studies at JCCC have been included unless lists of other completers have been provided by the Metropolitan Community College career program administrator.

[3] Does not include completers incarcerated at the U.S. Army Disciplinary Barracks in Fort Leavenworth, Kansas.

[4] Completions in the Emergency Medical Technology and Medical Intensive Care Technology programs may not be accurate due to dual enrollments of many of these students in other programs such as Fire Science, Administration of Justice, or various allied health programs.

Table 5

RESPONDENTS TO SHORT-TERM
STUDIES OF CAREER PROGRAM COMPLETERS

Career Program	Academic Year in Which Program Completed '88-89	'89-90	'90-91	'91-92	'92-93
Accounting	11	4	2	6	10
Administration of Justice	3	2	6	10	16
Automotive Technology	2	7	13	7	8
Aviation Maintenance Tech. (co-op)	1	1	0	2	2
Biomedical Equipment Tech.	2	6	2	2	6
Business Administration	14	18	15	19	22
Chef Apprentice	2	7	4	10	17
Civil Engineering Tech. (new)	0	0	2	1	5
Commercial Art	21	16	29	18	16
Computer Systems Technology	4	9	10	5	3
Data Processing	32	42	53	39	38
Dental Hygiene (selective)	12	10	12	16	21
Drafting Technology	8	1	10	9	9
Electronics Engr. Tech.	7	7	8	7	8
Emergency Medical Technology	28	26	49	69	45
Equine Studies (discontinued)	8	7	0	9	1
Fashion Merchandising	12	8	4	4	7
Fire Science	5	10	7	10	8
HVAC Technology	8	7	12	18	20
Health Information Tech. (co-op)	1	6	5	7	7
Hospitality Management	20	15	16	20	22
Interior Merchandising	7	10	13	12	8
Interpreter Training (selective)	12	13	12	6	16
Manufacturing Technology (discontinued)	1	2	2	1	1
Marketing & Management	8	6	13	6	11
M.I.C.T. (Paramedic)	7	9	9	9	15
Nursing (selective)	24	44	34	48	46
Occup. Therapy Asst. (co-op)	0	1	0	1	0
Office Automation Tech.	4	5	6	14	22
Office Systems Technology	4	13	17	19	18
Paralegal (selective)	40	64	75	55	39
Physical Therapy Asst. (co-op)	0	1	6	0	0

Table 5 (continued)

RESPONDENTS TO SHORT-TERM
STUDIES OF CAREER PROGRAM COMPLETERS

Career Program	Academic Year in Which Program Completed				
	'88-89	'89-90	'90-91	'91-92	'92-93
Police Academy	13	21	22	13	14
Radiologic Tech. (co-op)	0	3	5	0	13
Rec. Leadership (discontinued)	0	2	0	0	0
Respiratory Therapy (selective)	5	8	4	11	14
Sales & Customer Relations (new)	0	0	0	1	0
Science Technology (new)	0	0	0	0	0
Veterinary Tech. (co-op)	3	0	2	10	7
Totals	329	411	479	494	515
Percent of Change		+24.9%	+16.5%	+3.1%	+4.3%

Note. Over the past 5 years efforts to locate career program completers have been enhanced via greater involvement of career program facilitators, utilization of the alumni data base for recent changes of address, and an additional mailing if telephone inquiries resulted in new information on the location of the career program completer.

Table 6

COMPARISON OF 5-YEAR TOTALS:
CAREER PROGRAM COMPLETERS & RESPONDENTS

Career Program	Total Completers	Total Respondents	Respondents as % of Completers[1]
Accounting	47	33	70.2%
Administration of Justice	58	37	63.8
Automotive Technology	63	37	58.7
Aviation Maintenance Tech. (co-op)[2]	9	6	66.7
Biomedical Equipment Tech.	28	18	64.3
Business Administration	142	88	62.0
Chef Apprentice	57	40	70.2
Civil Engineering Tech. (new)	12	8	66.7
Commercial Art	150	100	66.7
Computer Systems Technology	39	31	79.5
Data Processing	271	204	75.3
Dental Hygiene (selective)	86	71	82.6
Drafting Technology	55	37	67.3
Electronics Engr. Tech.	53	37	69.8
Emergency Medical Technology[3]	288	217	75.3
Equine Studies (discontinued)	39	25	64.1
Fashion Merchandising	53	35	66.0
Fire Science	51	40	78.4
HVAC Technology	85	65	76.5
Health Information Tech. (co-op)[2]	29	26	89.7
Hospitality Management[4]	133	93	69.9
Interior Merchandising	67	50	74.6
Interpreter Training (selective)	75	59	78.7
Manufacturing Tech. (discontinued)	12	7	58.3
Marketing & Management	64	44	68.8
M.I.C.T. (Paramedic)[3]	62	49	79.0
Nursing (selective)	237	196	82.7
Occup. Therapy Asst. (co-op)[2]	5	2	40.0
Office Automation Tech.	77	51	66.2
Office Systems Technology	91	71	78.0
Paralegal (selective)	348	273	78.4

Table 6 (continued)

COMPARISON OF 5-YEAR TOTALS:
CAREER PROGRAM COMPLETERS & RESPONDENTS

Career Program	Total Completers	Total Respondents	Respondents as % of Completers[1]
Physical Therapy Asst. (co-op)[2]	9	7	77.8
Police Academy	150	83	55.3
Radiologic Tech. (co-op)[2]	40	21	52.5
Rec. Leadership (discontinued)	2	2	100.0
Respiratory Therapy (selective)	48	42	87.5
Sales & Cust. Relations (new)	1	1	100.0
Science Technology (new)	2	0	0.0
Veterinary Tech. (co-op)[2]	22	22	100.0
5-Year Totals	3,060	2,228	72.8%

Notes. [1] Unadjusted response rates.

[2] Selective admissions co-op program with Metropolitan Community Colleges. Completer figures may include additional students suggested by co-op career program administrators for inclusion in the follow-up who did not originate their studies at JCCC.

[3] Completion figures may not be accurate due to dual enrollments of many EMS students in other programs such as Fire Science, Administration of Justice, or various allied health programs.

[4] Completer figure does not include students incarcerated at the U.S. Army Disciplinary Barracks in Fort Leavenworth, Kansas.

Table 7

5-YEAR AVERAGE: CURRENT STATUS OF
RESPONDENTS TO SHORT-TERM FOLLOW-UP STUDIES

	Total Number of Responses	Employed in Job Related to Training	Employed in Job Unrelated to Training	Pursuing Additional Education	Unemployed; Not Pursuing Education	Not in Labor Force; Not Pursuing Ed.	Military/ Unknown
Accounting	33	78.8%	21.2%	0.0%	0.0%	0.0%	0.0%
Administration of Justice	37	56.8	27.0	13.5	0.0	0.0	2.7
Automotive Technology	37	81.1	13.5	5.4	0.0	0.0	0.0
Aviation Maintenance Tech. (co-op)	6	50.0	50.0	0.0	0.0	0.0	0.0
Biomedical Equipment Tech.	18	83.3	0.0	5.6	11.1	0.0	0.0
Business Administration	88	84.1	4.5	8.0	3.4	0.0	0.0
Chef Apprentice	40	95.0	2.5	2.5	0.0	0.0	0.0
Civil Engineering Technology	8	100.0	0.0	0.0	0.0	0.0	0.0
Commercial Art	100	76.0	5.0	9.0	5.0	2.0	3.0
Computer Systems Technology	31	74.2	6.5	9.7	9.7	0.0	0.0
Data Processing	204	76.0	10.3	6.9	4.4	1.5	0.9
Dental Hygiene (selective)	71	98.6	0.0	0.0	0.0	1.4	0.0
Drafting Technology	37	73.0	13.5	5.4	2.7	0.0	5.4
Electronics Engr. Tech.	37	56.8	24.3	13.5	2.7	0.0	2.7
Emergency Medical Technology	217	60.4	19.8	14.3	2.3	0.5	2.7
Equine Studies	25	64.0	16.0	8.0	4.0	8.0	0.0
Fashion Merchandising	35	85.7	8.6	2.9	0.0	2.9	0.0
Fire Science	40	90.0	5.0	2.5	2.5	0.0	0.0
HVAC Technology	65	73.8	12.3	7.7	3.1	0.0	3.1
Health Information Tech. (co-op)	26	84.6	7.7	0.0	3.8	3.8	0.0
Hospitality Management	93	81.7	5.4	4.3	8.6	0.0	0.0
Interior Merchandising	50	70.0	20.0	2.0	0.0	8.0	0.0
Interpreter Training (selective)	59	91.5	1.7	3.4	1.7	1.7	0.0
Manufacturing Technology	7	100.0	0.0	0.0	0.0	0.0	0.0
Marketing & Management	44	84.1	2.3	6.8	4.5	2.3	0.0
M.I.C.T. (Paramedic)	49	89.8	2.0	4.2	2.0	2.0	0.0
Nursing (selective)	196	96.5	0.0	0.5	1.5	1.5	0.0
Occupational Therapy Asst	2	50.0	0.0	0.0	50.0	0.0	0.0

Table 7 (continued)

5-YEAR AVERAGE: CURRENT STATUS OF
RESPONDENTS TO SHORT-TERM FOLLOW-UP STUDIES

	Total Number of Responses	Employed in Job Related to Training	Employed in Job Unrelated to Training	Pursuing Additional Education	Unemployed; Not Pursuing Education	Not in Labor Force; Not Pursuing Ed.	Military/ Unknown
Office Automation Tech.	51	74.5%	5.9%	9.7%	5.9%	2.0%	2.0%
Office Systems Technology	71	76.1	8.5	7.0	4.2	2.8	1.4
Paralegal (selective)	273	71.8	11.4	5.5	5.5	4.8	1.0
Physical Therapy Assistant	7	100.0	0.0	0.0	0.0	0.0	0.0
Police Academy	83	98.8	1.2	0.0	0.0	0.0	0.0
Radiologic Tech. (co-op)	21	95.2	0.0	4.8	0.0	0.0	0.0
Rec. Leadership (discontinued) (discontinued)	2	100.0	0.0	0.0	0.0	0.0	0.0
Respiratory Therapy (selective)	42	97.6	2.4	0.0	0.0	0.0	0.0
Sales & Customer Relations	1	0.0	0.0	100.0	0.0	0.0	0.0
Veterinary Tech. (co-op)	22	95.5	4.5	0.0	0.0	0.0	0.0
5-Year Totals	2,228	79.6%	8.8%	5.8%	3.2%	1.7%	0.9%
Total for Class of 1988-89	329	79.2%	11.0%	3.4%	4.0%	1.8%	0.6%
1989-90	411	81.5	6.3	5.8	3.4	2.7	0.3
1990-91	479	74.2	8.5	9.6	4.0	2.7	1.0
1991-92	494	80.3	9.6	4.3	3.5	1.0	1.4
1992-93	515	82.7	8.9	5.4	1.6	0.6	0.8

Note. Employed respondents who were also pursuing additional education appear in the appropriate employment category only.

Table 8

5-YEAR COMPARISON: AVERAGE HOURLY WAGE OF RESPONDENTS EMPLOYED *FULL-TIME* IN A RELATED JOB

Career Program	Academic Year in Which Program Was Completed '88-89	'89-90	'90-91	'91-92	'92-93
Accounting	$ 7.17	$ 7.95	$15.00	$ 9.00	$11.35
Administration of Justice	14.50	15.60	11.80	10.38	12.69
Automotive Technology	10.25	7.55	8.19	11.50	9.04
Aviation Maintenance Tech. (co-op)	7.00	5.00	n.a	n.a	12.50
Biomedical Equipment Tech.	13.82	8.25	10.50	8.38	9.09
Business Administration	11.48	12.17	13.09	13.28	12.77
Chef Apprentice	7.15	10.90	12.80	8.74	9.67
Civil Engineering Tech. (new)	n.a	n.a	10.50	8.50	9.71
Commercial Art	8.64	7.89	8.44	9.25	8.12
Computer Systems Technology	10.26	10.76	9.99	9.42	n.a
Data Processing	13.45	12.17	12.91	12.42	13.96
Dental Hygiene (selective)	14.74	14.78	17.12	17.09	18.62
Drafting Technology	8.52	n.a	9.42	12.00	10.64
Electronics Engr. Tech..	8.91	8.98	16.28	8.00	15.41
Emergency Medical Technology	8.06	9.87	8.51	9.13	7.74
Equine Studies (discontinued)	10.32	5.88	n.a	8.63	n.a
Fashion Merchandising	6.67	6.85	6.90	15.00	9.20
Fire Science	12.25	11.08	12.80	11.76	12.42
HVAC Technology	13.53	9.08	12.80	12.54	11.28
Health Information Tech. (co-op)	9.00	8.73	10.32	10.17	8.38
Hospitality Management	8.38	8.70	8.13	8.62	9.68
Interior Merchandising	7.28	7.38	15.00	6.00	16.50
Interpreter Training (selective)	7.73	8.35	10.42	11.75	12.05
Manufacturing Tech. (discontinued)	10.00	13.00	19.00	n.a	20.57
Marketing & Management	5.96	10.34	12.99	12.64	10.60
M.I.C.T. (Paramedic)	9.84	8.02	9.33	8.67	10.43
Nursing (selective)	12.49	13.73	15.11	14.87	15.12
Office Automation Tech.	7.00	9.40	10.48	11.41	9.55
Office Systems Technology	8.07	8.00	8.32	8.71	11.13
Paralegal (selective)	10.56	9.60	9.54	9.58	10.72
Physical Therapy Asst. (co-op)	n.a	8.00	10.49	n.a	n.a

Table 8 (continued)

5-YEAR COMPARISON: AVERAGE HOURLY WAGE OF RESPONDENTS EMPLOYED *FULL-TIME* IN A RELATED JOB

	Academic Year in Which Program Was Completed				
Career Program	'88-89	'89-90	'90-91	'91-92	'92-93
Police Academy	11.03	11.86	12.18	12.88	12.69
Radiologic Tech. (co-op)	n.a	$10.34	$10.35	n.a	$12.19
Rec. Leadership (discontinued)	n.a	9.38	n.a	n.a	n.a
Respiratory Therapy (selective)	$11.19	11.59	10.00	$13.19	11.61
Veterinary Tech. (co-op)	7.13	n.a	8.10	7.58	7.40
Totals	$10.36	$10.67	$11.28	$11.47	$11.86

Note. Results detail responses to this question only, excluding unknowns. Caution should be exercised when interpreting these hourly wages due to the small number of respondents in some career programs and differences in working conditions, longevity, and job responsibilities.

Respondents have not always been willing to disclose their wages. Thus, "n.a" indicates that the data are not available.

Table 9

5-YEAR AVERAGE: PERCENT OF RESPONDENTS
SATISFIED WITH FULL-TIME RELATED JOB

Career Program	Number of Responses	Percent Satisfied
Accounting	23	82.6%
Administration of Justice	14	85.7
Automotive Technology	26	73.1
Aviation Maintenance Tech. (co-op)	3	66.7
Biomedical Equipment Tech.	13	76.9
Business Administration	62	82.3
Chef Apprentice	36	58.3
Civil Engineering Tech. (new)	7	85.7
Commercial Art	57	89.5
Computer Systems Technology	19	84.2
Data Processing	134	82.1
Dental Hygiene (selective)	60	86.7
Drafting Technology	25	92.0
Electronics Engr. Tech.	19	68.4
Emergency Medical Technology	85	91.8
Equine Studies (discontinued)	9	88.9
Fashion Merchandising	20	75.0
Fire Science	35	80.0
HVAC Technology	46	84.8
Health Information Tech. (co-op)	19	78.9
Hospitality Management	73	84.9
Interior Merchandising	20	95.0
Interpreter Training (selective)	35	91.4
Manufacturing Tech. (discontinued)	6	50.0
Marketing & Management	29	89.7
M.I.C.T. (Paramedic)	44	90.9
Nursing (selective)	167	94.0
Office Automation Tech.	34	79.4
Office Systems Technology	43	86.0
Paralegal (selective)	163	80.4
Physical Therapy Asst. (co-op)	6	100.0
Police Academy	79	97.5

Table 9 (continued)

5-YEAR AVERAGE: PERCENT OF RESPONDENTS SATISFIED WITH FULL-TIME RELATED JOB

Career Program	Number of Responses	Percent Satisfied
Recreational Leadership	1	100.0%
Radiologic Tech. (co-op)	18	100.0
Rec. Leadership (discontinued)	1	100.0
Respiratory Therapy (selective)	37	94.6
Veterinary Tech. (co-op)	18	88.9
5-Year Totals	1,485	85.8%
Totals for Class of 1988-89	226	86.7%
Class of 1989-90	292	87.4%
Class of 1990-91	306	87.3
Class of 1991-92	307	84.0
Class of 1992-93	354	86.4

Note. Data were collected utilizing a 5-point scale ranging from excellent to poor. Thus, these results include "very satisfied"and "somewhat satisfied" responses combined. Results detail responses to this question only, excluding unknowns.

Table 10

5-YEAR AVERAGE: POSITIVE EMPLOYER EVALUATION OF COMPLETER'S OVERALL JOB PREPARATION

Career Program	Number of Responses	Percent Satisfied
Accounting	14	78.6%
Administration of Justice	11	81.8
Automotive Technology	11	100.0
Aviation Maintenance Tech. (co-op)	1	100.0
Biomedical Equipment Tech.	10	100.0
Business Administration	36	94.4
Chef Apprentice	22	90.9
Civil Engineering Tech. (new)	7	85.7
Commercial Art	38	94.7
Computer Systems Technology	12	100.0
Data Processing	81	95.1
Dental Hygiene(selective)	43	95.3
Drafting Technology	20	90.0
Electronics Engr. Tech.	12	91.7
Emergency Medical Technology	51	84.3
Equine Studies (discontinued)	5	100.0
Fashion Merchandising	17	88.2
Fire Science	27	92.6
HVAC Technology	21	95.2
Health Information Tech. (co-op)	13	84.6
Hospitality Management	41	87.8
Interior Merchandising	12	83.3
Interpreter Training (selective)	34	100.0
Manufacturing Tech.	1	100.0
Marketing & Management	17	94.1
M.I.C.T. (Paramedic)	26	96.2
Nursing (selective)	125	94.4
Office Automation Tech.	24	83.3
Office Systems Technology	33	93.9
Paralegal (selective)	96	96.9
Physical Therapy Asst. (co-op)	7	100.0
Police Academy	37	83.8

Table 10 (continued)

5-YEAR COMPARISON: POSITIVE EMPLOYER EVALUATIONS OF COMPLETER'S OVERALL JOB PREPARATION

Career Program	Number of Responses	Percent Satisfied
Radiologic Tech. (co-op)	14	85.7
Rec. Leadership (discontinued)	2	100.0
Respiratory Therapy (selective)	28	96.4
Veterinary Tech. (co-op)	14	100.0
5-Year Totals	963	92.7%
Total for Class of 1988-89	154	92.3%
1989-90	176	90.9%
1990-91	201	93.5%
1991-92	199	89.9%
1992-93	233	95.7%

Note. Data were collected utilizing a 5-point scale ranging from very good to poor. Thus, these results include "very good"and "good" responses combined. Results detail responses to this question only, excluding unknowns.

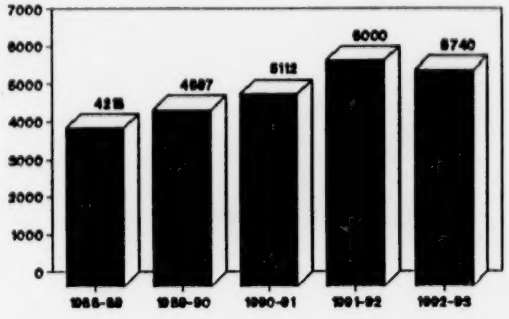
JCCC RESEARCH IN BRIEF

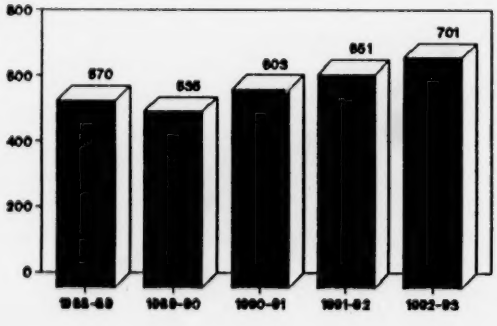
September 1994
COM 305, ext. 3443
Office of Institutional Research

5-Year Report of JCCC Career Programs: Fall 1988 to Spring 1993

Purpose: The purpose of this report is to summarize important findings from the last five follow-up studies of career program completers, and to bring together information which answers the questions most often asked about the college's career programs.

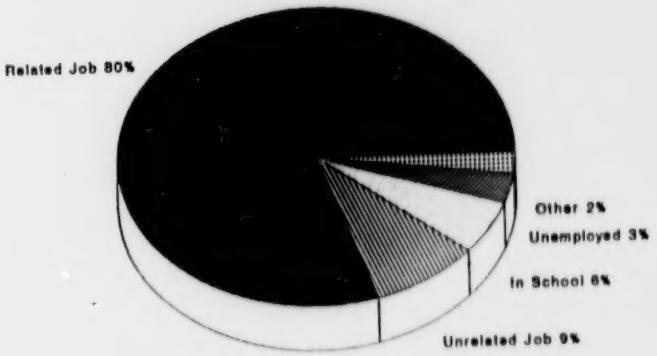
Enrollments: Career program enrollments increased substantially between 1988-89 and 1991-92 (+42%), but decreased slightly between the 1991-92 and 1992-93 academic years. The career programs exhibiting the greatest numerical increase in students were data processing, business administration, accounting, commercial art, and chef apprentice.





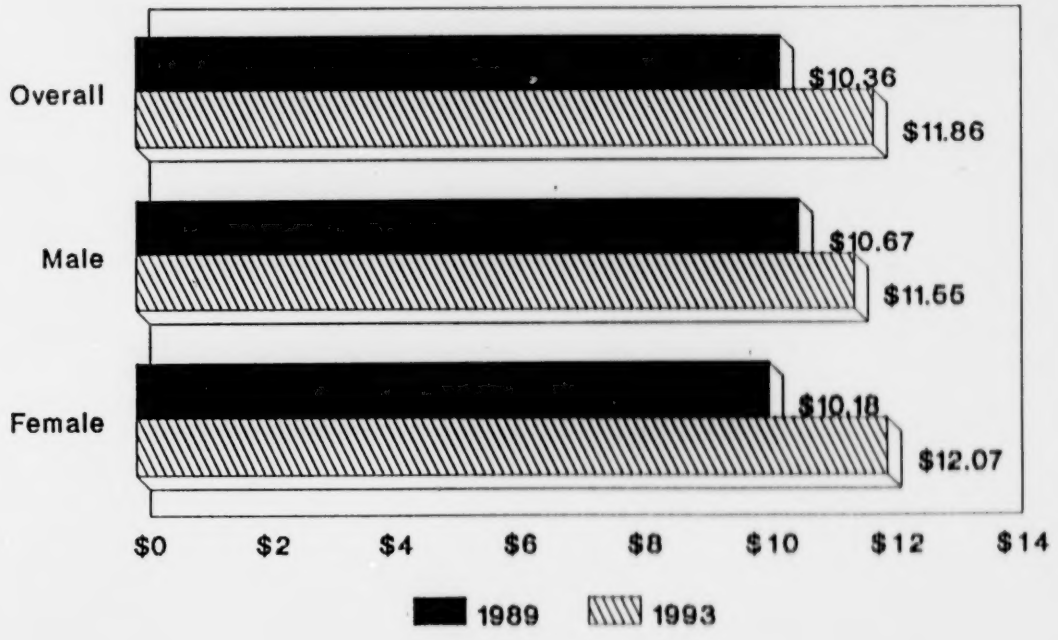
Completions: The number of career program completers declined between 1988-89 and 1989-90, then increased in each of the following 4 years for a net increase of 23% over the 5-year period and a gain of 32% between 1989-90 and 1992-93. Programs producing the largest total number of completers over the 5-year period were paralegal, emergency medical technology, data processing, nursing, commercial art, police academy, business administration, and hospitality management.

Current Status: Fully 80% of respondents to the short-term follow-up studies conducted over the past 5 years reported that they were working in a job related to their career program. Only 3% were unemployed and looking for work; 9% were working in an unrelated job; 6% were pursuing additional education, and the remaining 2% were either serving in the military, out of the labor force, or their status was unknown.



Average Hourly Wages: The overall average hourly wage of respondents employed full-time in a job related to their career program increased by 15% between the follow-up of the Class of 1988-89 and the Class of 1992-93. Although male respondents from the Class of 1988-89 reported a higher average hourly wage than females ($10.67 vs. $10.18), the situation reversed itself with results for the Class of 1992-93 (females $12.07 vs. males, $11.55). The average hourly wage for males increased 8% over this 5-year period, while the average for females increased by 19%.

The career programs with at least 10 respondents who reported the highest average hourly wage for the Class of 1992-93 were dental hygiene ($18.62), nursing ($15.12), data processing ($13.96), business administration ($12.77), and police academy ($12.69).



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